

Device for measuring the internal diameter of a pipe

BACKGROUND OF THE INVENTION:

Field of the invention:

More particularly, the present invention relates to a device being used for measuring the internal diameter of a pipe.

Description of the related art:

A search of prior art records has unveiled the following patents:

1. CA 2,046,492 registered in 1991 to Barski;
2. CA 1,134,872 issued in 1982 to Passamoni;
3. CA 2,218,436 registered in 1942 to Wiercienski;
4. CA 512,624 issued in 1955 to Bissell;
5. CA 438,857 issued in 1946 to Levin;
6. CA 2,074,640 registered in 1992 to Rafilipomanana; and
7. CA 2,278,046 registered in 1997 to Prakken.

As can be seen the patents mentioned above are probably the most relevant.

Summary of the invention:

It has been discovered that the present invention described herein allows to measure the internal diameter of a pipe, which includes a tape mounted into a flat elongated body having holes to allow a string to be pulled out of a

flat elongated body. The tape includes hole at a first end for connecting a first end of an elastic band and the string to the tape.

The flat elongated body includes a tongue having hole for connecting a second end of the elastic band. The string pulls the tape out of the flat elongated body for measuring the internal diameter of the pipe.

Still, the tape includes also hole at a second end for connecting a circular member keeping the device at a right angle in bottom of the pipe when reading the diameter of the pipe with the inspection camera, and also blocking the tape at the input of the flat elongated body when the elastic band bringing the tape into the elongated body.

A metal part is disposed between the flat elongated body and a wire of the inspection camera for keeping the device in bottom of the pipe.

A multitude of mechanical fasteners are mounted to the flat elongated body for fastening the inspection camera, and for extending the flat elongated body one can connected an extension body at one end of the flat elongated body.

Brief description of the several views of the drawing(s):

Figure 1 is a perspective view of a device being used for measuring the internal diameter of a pipe -as shown in phantom lines-;

Figure 2 is a perspective view of the device being used for measuring the internal diameter of a pipe;

Figure 3 is a front view thereof; and

Figure 4 is an exploded view thereof.

Detailed description of the invention:

Referring to figs. 1 to 4, a device (A) being used for measuring the internal diameter of a pipe, which comprises a tape (1) mounted into a flat elongated body (4) having holes (9) to allow to a string (3) to be pulled out of the elongated body (4).

The tape (1) includes hole (11) at a first end for using a means (12) connecting a first end of an elastic band (2) and the string (3) to the tape (1). The flat elongated body (4) includes a tongue having hole (10) for connecting a second end of the elastic band (2). The string (3) pulls the tape (1) out of the flat elongated body (4) for measuring the internal diameter of the pipe.

Still, the tape (1) includes also hole at a second end for connecting a circular member (6) keeping the device at a right angle in bottom of the pipe when reading the diameter of the pipe with the inspection camera, and also blocking the tape (1) at the input of the flat elongated body (4) when the

elastic band (2) bringing the tape (1) into the elongated body (4).

A metal part (7) is disposed between the elongated body (4) and a wire of the inspection camera for keeping the device (A) in bottom of the pipe.

A plurality of mechanical fasteners (5) are mounted to the flat elongated body (4) for fastening the inspection camera -as shown in phantom lines-, and for extending the flat elongated body (4) one can connected an extension body (8) at one end of the flat elongated body (4) (see fig. 1).

Although only a single embodiment of the present invention has been described and illustrated, the present invention is not limited to the features of this embodiment, but includes all variations and modifications within the scope of claims attached hereto without departing from the spirit of the invention.